The field observations confirmed that the WMAs are dominated by hydrophilic vegetation at test sites 1 and 3. The soils at these test sites were saturated or inundated, thus meeting the wetland hydrology criterion. Field indicators of hydric soil conditions were also observed at test sites 1 and 3, including the following: (1) soil saturation throughout the soil column, indicating aquic moisture conditions; and (2) a low chroma matrix color (chroma = 1) and meet the hydric soil criterion.

The delineated acreage of WMA A is approximately 2.6 acres (Figure 2) and WMA B is approximately 0.2 acre (Figure 3), for a total of 2.8 acres. The revised mitigation plan required by the USACE in 2006 provided 3.59 acres of wetland creation and enhancement in WMA A and the additional 0.52 acre of wetland creation in WMA B, for a total of approximately 4.1 acres of wetland mitigation. Thus, the current wetland mitigation acreage is approximately 1.3 acres less than required.

3.3.3 Vegetative Composition and Cover

Plant community observations at the WMAs are provided in Table 1, which lists the dominant plant species observed, stratum, indicator status, and percent vegetative cover within each plant community. Visual estimates of vegetative cover by dominant plant species were made for sample plots having an area of approximately 100 m^2 at nine representative locations within the wetland plant communities (plots A through I, see figures 2 and 3). Photographs were taken of each sample plot (Photographs 10-18) and are presented in Appendix C.

The site reconnaissance revealed that the WMAs consist of functional wetlands supporting a diverse assemblage of wetland plants. With the exception of two small wetland depressions, the majority of WMA A is located to the north of Long Run. Three plant communities were present in this wetland – mixed marsh, cattail marsh, and rice cutgrass marsh. Dominant plant species included narrow leaved cat-tail (*Typha angustifolia*, OBL), rice cutgrass (*Leersia oryzoides*, OBL), purple-leaved willow herb (*Epilobium coloratum*, OBL), tear-thumb (*Polygonum sagittatum*, OBL), touch-me-not (*Impatiens capensis*, FACW), and soft rush (*Juncus effuses*,